

I claim:

1. A method of forming a door assembly, said method comprising the steps of:  
forming a pair of hollow core stiles;  
forming a pair of rails;  
inserting a panel between the rails and the stiles;  
5 extending the panel into the rails and stiles; and  
interconnecting the stiles and the rails and the panel to form a stile and rail  
style door assembly.

2. The method according to Claim 1, wherein said forming a pair of hollow core  
stiles comprises:

assembling a sub-frame from a pair of generally horizontally spaced frame  
members and generally vertically spaced frame members;

5 attaching door skins to a first side of the sub-frame and to a second side of the  
sub-frame to form a hollow core stile; and  
forming at least two of the hollow core stiles.

3. The method according to Claim 2, wherein said assembling includes  
interconnecting the horizontally spaced frame members and the vertically spaced frame  
members with fasteners.

4. The method according to Claim 3, wherein said interconnecting comprises  
interconnecting the horizontally spaced frame members and the vertically spaced frame  
members with dowels.

5. The method according to Claim 4, wherein said attaching comprises  
adhesively bonding the door skins to the front and back sides of the sub-frame.

6. The method according to Claim 1, wherein said forming a pair of rail  
comprises forming at least one hollow core rail.

7. The method according to Claim 1, wherein said forming a pair of rail comprises forming a pair of hollow core rails.

8. The method according to Claim 1, wherein said inserting a panel comprises forming a groove in said stiles and said rails and inserting said panel into said grooves.

9. The method according to Claim 1, wherein said forming a groove in said stiles comprises forming a groove in an inwardly facing side of said sub-frame.

10. A paneled door assembly comprising:  
a pair of stiles, at least one of said stiles comprising a hollow core;  
a pair of rails interconnecting said stiles; and  
at least one panel extending into said stiles and rails and being supported

5 between said pair of stiles and said pair of rails.

11. The paneled door according to Claim 10, wherein said at least one stile comprises:

a pair of spaced apart generally vertical frame members, a pair of generally horizontal frame members interconnected with said vertical frame members to form a sub-frame, and door skins mounted over said sub-frame and secured to said sub-frame.

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12. The paneled door according to Claim 11, wherein an inwardly facing sides of said sub-frame receives said panel therein.

13. The paneled door according to Claim 12, wherein each of said stiles comprises hollow core stiles.

14. A paneled door assembly comprising:  
a pair of stiles, at least one of said stiles comprising a hollow core;  
a pair of rails interconnecting said stiles, at least one of said rails comprising a hollow core; and

5 at least one panel extending into said stiles and rails and being supported between said pair of stiles and said pair of rails.

15. The panel door assembly according to Claim 14, wherein said at least one rail comprises a pair of spaced apart generally vertical frame members, a pair of generally horizontal frame members interconnected with said vertical frame members to form a sub-frame, and door skins mounted over said sub-frame and secured to said sub-frame, and an  
5 inwardly facing side of said sub-frame receiving said panel.

16. The panel door assembly according to Claim 14, wherein said stiles are interconnect with said rails by fasteners.

17. The panel door assembly according to Claim 14, wherein said fasteners comprise dowels.

18. A paneled door assembly comprising:  
a pair of stiles;  
a pair of rails interconnecting said stiles;  
at least one panel supported between said pair of stiles and said pair of rails;  
5 and  
each of said stiles comprising a pair of spaced apart generally vertical frame members, a pair of generally horizontal frame members interconnected with said vertical frame members to form a sub-frame, and door skins mounted over front and back sides of said sub-frame and secured to said sub-frame, and inwardly facing sides of said vertical  
10 frame members receiving said panel therein to thereby from said door assembly.

19. The paneled door assembly according to Claim 18, wherein at least one of said rails comprises a pair of spaced apart generally vertical frame members, a pair of generally horizontal frame members interconnected with said vertical frame members of said rail to form a sub-frame, and door skins mounted over front and back sides of said sub-frame of said  
5 rail and secured to said sub-frame of said rail, and inwardly facing sides of said vertical frame members of said rail receiving said panel therein to thereby from said door assembly.

20. The paneled door assembly according to Claim 19, wherein said stiles and said rails are interconnected by fasteners.

21. The paneled door assembly according to Claim 20, wherein said fasteners comprise dowels.

22. The paneled door assembly according to Claim 20, wherein said stiles have hollow cores.

23. The paneled door assembly according to Claim 22, further comprising at least one insert in each of said hollow cores of said stiles.

24. The paneled door assembly according to Claim 23, wherein said inserts comprise at least one chosen from a group of corrugated cardboard and foam.

25. The paneled door assembly according to Claim 20, wherein said rails have at least partially hollow cores.

26. The paneled door assembly according to Claim 25, further comprising at least one insert in each of said hollow cores of said rails.

27. A paneled door assembly comprising:  
a pair of stiles;  
a pair of rails interconnecting said stiles;  
at least one panel supported between said pair of stiles and said pair of rails;  
each of said rails comprising a pair of spaced apart generally vertical frame

members, a pair of generally horizontal frame members interconnected with said vertical frame members to form a sub-frame, and door skins mounted over said sub-frame and secured to said sub-frame, and inwardly facing sides of said horizontal frame members receiving said panel therein; and

each of said stiles comprising a pair of spaced apart generally vertical frame members, a pair of generally horizontal frame members interconnected with said vertical frame members of said stiles to form a sub-frame, and door skins mounted over and secured to said sub-frame of said stiles, and inwardly facing sides of said vertical frame members of said stiles receiving said panel therein to thereby form said door assembly .